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INFORMATION REPORT

Germany (Russian Zone)

DATE DISTR. 20 May 1952

COUNTRY SUBJECT

ACQUIRED

DATE10F

INFO.

PLACE

I. Rail Stocks 2. Rails Mounted on Reinforced Concrete Ties NO. OF PAGES

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NO. OF ENCLS 1 page

SUPPLEMENT TO REPORT NO.

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THIS IS UNEVALUATED INFORMATION

indicated

- Stocks of old rails kept by the State Railroads are of limited usability Fost of these rails have only scrap value but as there is an acute shortage of new rails, the stock of old rails must be sorted again and again, at great cost, in order to find rail material which can be reconditioned for further use. Fost of these reclaimed rails, because of excessive wear and tear, can be used only on third class railroad tracks.
- b. Of the usable rails, 15,000 meters or 675 tons must be kept available for energency cases by order of the SCC so that only 120,000 meters of rails or 4,950 tons remain available for current track maintenance operations. (See Tabulation I below). This means that only approximately 15,000 meters of rails will be at the disposal of each of the eight regio al railroad headquarters. As there are about 20 different types of rails, and as at least the most commonly used standard and closing length of each of these types must be kept on hand for the replacement of broken rails and for urgent repair work, only about 125 meters of each of the 20 types of rails would be actually available for current maintenance work in each of the eight railroad districts. This quantity is barely adequate. The rails listed in Tabulation II below are reconditioned for further use. In 1951, a total of 573,000 meters of rails was reconditioned. On 17 September 1951, the Directorate General ordered the regional railroad headquarters to have rails of Tabulation IV under five meters in length scrapped. (1) This order will affect about 40,000 meters of rails or about 1,400 tons. In addition, approximately 59,600 meters of rails, or 2,190 tons, listed in Tabulation If and IV will be turned over to retionalized industrial plants to be used for building purposes. Stocks of old but still usable rails decreased from over 30,000 tons available on 31 depicater 1951 to 21,201 en hand at the end of November 1951. In the course of 1951, a total of 1,267,661 meters of rails, i.e., an estimated 50,700 tons, were installed. Compared with these requirements, the stocks of old rails which are still serviceable or capable of being reconditioned are very low.

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		~		(1)
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c. Tabulation ment of:	of requirement	e for old but ser	viceable rails in	1952 as replace-
130 km of trac	kage: 266 km of	c terory 1-3 rat	ls, 10,400 to	ກຣ
495 km of rail	e: 1605 lm	n <u>13</u> n	, 19,800 "	
2,200 switches	:_ 200 km	49	9,000 "	***
	1	Tot	al: 39,200 to	ns.
maintoired rails. Re	as scheduled o	n the basis of av	nd switches canno milable stocks of jects to be execu	old, usable
d. Recording at the end	to tabulations : of October 195	made by the Indiv l, the Cullowing	idual regional ra stocks of used ra	ilroad bendquarters ils were available:
	<u> </u>	tion 1. (Servicea	le rails)	*
Narrow-gauge Nalls (28 kg/poter)	Might Type Rells (35 kg/seter)	Vedius Type Adis (42 kg/seter)	Weavy Type Rails (My kg/metor)	Total
2,202 (66)	h8,205 (1,687)	72,771 (3,166)	37,117 (1,781)	162,295 (6,700)
	Tabula:	tion II. (Crils C.	apable of	
2,126 (60)	68,016 (2,381)	7):,032 (3,109)	69,685 (3,1 1 5)	21.3,860 (8,965)
*	Tabulat Suitab	cion III, (Categor Le only for finer	ry h Rails, Tracks)	
10,030 (201)	27,11h (950)	· 12,96k (534)	13,095 (6l ₁ 2)	63,233 (2,407)
X .	Tobulat	cion IV. (Sable dallroad Purposes,	for Hon-	
*	*		-4	149,402 (5,232)
Grand Total				530,870 (23,304)

Stocks of rails available at the end of November 1951:

an Control State 17 C	COLL TO CONTRACTOR	mule rails,
320	70 , 79 č	25,
SC / S	, " \	778

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		Tabulation II	(Rails Copelle	of		
	5,387 (151)	69,776 (2,442)	67,110 (2,010)	53,165 (3,095)	205,138 (8,504)	
	17,085	Inbulation 11. Suitable only 19,113	(Category h Ra / for Linov Track	ils, 5) '10,772	60,371	
*	(478)	(665)	(503)	(538)	(2,048)	V.
	Usable for a	on-cailread purper	ees		113,691 (5,029) 514,660	
* *	Note: Ficur	es in parentheses			(21,201)	
		***		' of 4	8.0	
	So. : en	to.				25
(1)		Toning of raths you I less the of 15 be	LCTO .			25
	The recently into standard Stucks of re- quirements.	loning of rails y.	ters. La sid al Coverte duled constructio	or 1001 are for t	1. tow 1000 mg	25
(2)	The record to into standard of record of the standard of the s	Ioning of rails and lengthe of 15 me its evaluable at 1 Thus either sold more railroad line of these rails profession wooden ties to conforce the conforce ties.	ters. Le chi of Toverle duled chastrotte ob will have to t duced by the Tou have a limesta	or 1051 are for to projects will commanded. Tuette plant has a countries to e	have to be s glyage been s /m.	25
(2)	The record to into standard of controlled or the arcter of	Toning of raths and length of 15 me its evaluable at the first properties of these rails or Cood raths rather than the following the first length of the force of the first length of the first le	ters. Le sud of Toverte duled construction on will vive to t duced by the for howe a throught encycle, it is different and a fire thinks design in In- re in consense v ils considers i	or 1051 are for to projects will climantled. Tuetto plant has all least 70 has been so all to make the continuation that the the continuation that	have to be solvent been g/m. when the date, if this nor	25

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A Method of Mounting of Hails on deinforced Concrete Ties.

The most important problem for the utiligation of reinforced concrete ties is the mounting of rails. Almost all the reinforced concrete ties previously tested were designed so that rails were secured to them either directly or via a tieplate ty means of screwalnserted into dowels, which were embedded in concrete. For this reison, a new method designed to marrantee a solid and durable connection between the and rails has been developed. Dased on experience with type R ribbed sleepers, which has proved reliable, a new ribbed the plate, which is embedded in the concrete of the tie, has been designed. This device makes it possible to secure the rail to the tie plate by means of standard chips and jaw screws just as with the type I permanent way.

There are ribbed reinforcements on the underside of the heads of the tie plate and they are designed to take up the transverse pressure and torsion and to transmit then to the four angle braces in the angles between the bottom surface of the plate and the ribled reinforcements of the ties. The braces grip the iron mountaints of the tie and are lept in place by two rods. If the contrate of the ties is reinforced by about iros, these reds tree not required. The new tie incorporates an arched a charge typical of connections used in ferro-c ribbe constructions and meets all equirements. I speed to see the ribs of the tie plate increases its resistance against rail creeping and prevents the direct taking up of pressure by the concrete.

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